AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): An electronic device having an optical system for capturing

an image comprising:

a focusing mechanism for moving said optical system to an auto-focusing position or a fixed

focus position;

a switch that functions as a focusing switch and also functions as a shutter switch, wherein

said switch when operated orders a focusing action or orders capturing of the image; and

a controller that decides whether the optical system is in a final lens position or not during

a focusing action of said focusing mechanism due to said switch, and in the case where a shutter

operation of said switch is performed under a state that the optical system is not in the final lens

position, shifts said optical system to a fixed focus position from an auto-focusing position and takes

a fixed focus image; and

an information presentation part that presents information showing that the image taken by

the shutter operation is a fixed focus image,

wherein, during the focusing action, a focusing value is measured with an origin at a lens

position where a focus position becomes an infinity, and if the measured focusing value is not

smaller than a maximum focusing value, the decision is performed with making the measured

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focusing value into the maximum focusing value, and

wherein said controller compares between a time required for bringing into focus in said focusing mechanism and a time from starting of the focusing action until starting of said shutter operation, and changes said optical system to said auto-focusing position or said fixed focus position

based on a result of the comparison.

Claim 2 (Previously presented): An electronic device having an optical system for capturing

an image comprising:

a focusing mechanism for moving said optical system to an auto-focusing position or a fixed

focus position;

a switch that functions as a focusing switch and also functions as a shutter switch, wherein

said switch when operated orders a focusing action or orders capturing of the image; and

a controller that decides whether the optical system is in a final lens position or not during

a focusing action of said focusing mechanism due to said switch, and in the case where a shutter

operation of said switch is performed under a state that the optical system is not in the final lens

position, shifts said optical system to a fixed focus position from an auto-focusing position and takes

a fixed focus image,

wherein said controller compares between a time required for bringing into focus in said

focusing mechanism and a time from starting of the focusing action until starting of said shutter

operation, and changes said optical system to said auto-focusing position or said fixed focus position

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based on a result of the comparison.

Claim 3 (Original): The electronic device of claim 1, wherein said switch is provided as a first switch, and a switch which is used in photographing by a fixed focus is also provided as a second switch separated from the first switch.

Claim 4 (Original): The electronic device of claim 1, wherein said switch functions as said focusing switch at a state of a half-push and functions as said shutter switch at a state of a full-push.

Claim 5 (Currently amended): The electronic device of claim 1 further comprising:

- a first housing part that has said optical system imaging part;
- a second housing part that has said switch; and

a coupling part that couples said first housing part and said second housing part so that the first and second housing parts can be folded up.

Claim 6 (Currently amended): An electronic device having an optical system for capturing an image comprising:

a focusing mechanism for moving said optical system to an auto-focusing position or a fixed focus position;

a switch that functions as a focusing switch and also functions as a shutter switch, wherein

said switch according to a condition of operation orders a focusing action or the capturing of the image; and

a controller that decides whether the optical system is in a final lens position or not during a focusing action of said focusing mechanism due to said switch, and in the case where a shutter operation of said switch is performed under a state that the optical system is not in the final lens position, takes an image at a focus position in the middle of the focusing action; and

an information presentation part that presents information showing that the image taken by the shutter operation is an image at the focus position in the middle of the focusing action,

wherein, during the focusing action, a focusing value is measured with an origin at a lens position where a focus position becomes an infinity, and if the measured focusing value is not smaller than a maximum focusing value, the decision is performed with making the measured focusing value into the maximum focusing value, and

wherein said controller compares between a time required for bringing into focus in said focusing mechanism and a time from starting of the focusing action until starting of said shutter operation, and changes said optical system to said auto-focusing position or said fixed focus position based on a result of the comparison.

Claim 7 (Original): The electronic device of claim 6, wherein said switch is provided as a first switch, and a switch which is used in photographing by a fixed focus is also provided as a second switch separated from the first switch.

Claim 8 (Original): The electronic device of claim 6, wherein said switch functions as said

focusing switch at a state of a half-push and functions as said shutter switch at a state of a full-push.

Claim 9 (Currently amended): The electronic device of claim 6 further comprising:

a first housing part that has said optical system imaging part;

a second housing part that has said switch; and

a coupling part that couples said first housing part and said second housing part so that the

first and second housing parts can be folded up.

Claim 10 (Currently amended): A photographing control method of an electronic device

having an imaging part which catches an image obtained through an optical system, and a focusing

mechanism which moves said optical system to an auto-focusing position or a fixed focus position,

comprising:

a process that detects a shutter operation in the middle of a focusing action of said focusing

mechanism;

a process that measures a focusing value with an origin at a lens position where a focus

position becomes an infinity, during the focusing action;

a process that makes the measured focusing value into a maximum focusing value if the

measured focusing value is not smaller than a maximum focusing value;

a process that decides whether the optical system is in a final lens position or not during a

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focusing action of the focusing mechanism;

a process that detects said shutter operation and, if the optical system is not in the final lens position, switches to said fixed focus position from said auto-focusing position of said optical system

under the focusing action;

a process that compares between a time required for bringing into focus in said focusing

mechanism and a time from starting of the focusing action until starting of said shutter operation,

and changes said optical system to said auto-focusing position or said fixed focus position based on

a result of the comparison; and

a process that takes a fixed focus image caught at said fixed focus; and

a process that presents information showing that the image taken by the shutter operation is

a fixed focus image.

Claim 11 (Original): The photographing control method of the electronic device of claim

10 further including a process that superimposes a focusing mark representative of a distance

between a pictured object and the optical system on an image, in the middle of said focusing action,

which is caught by said imaging part, and displays it.

Claim 12 (Currently amended): A photographing control method of an electronic device

having an imaging part which catches an image obtained through an optical system, and a focusing

mechanism which moves said optical system to an auto-focusing position or a fixed focus position,

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comprising:

a process that detects a shutter operation in the middle of a focusing action of said focusing mechanism;

a process that measures a focusing value with an origin at a lens position where a focus position becomes an infinity, during the focusing action;

a process that makes the measured focusing value into a maximum focusing value if the measured focusing value is not smaller than a maximum focusing value;

a process that decides whether the optical system is in a final lens position or not during a focusing action of the focusing mechanism;

a process that detects said shutter operation and, if the optical system is not in the final lens position, takes an auto-focusing image caught by said imaging part in the middle of the focusing action; and

a process that compares between a time required for bringing into focus in said focusing mechanism and a time from starting of the focusing action until starting of said shutter operation, and changes said optical system to said auto-focusing position or said fixed focus position based on a result of the comparison presents information showing that the image taken by the shutter operation is an auto-focusing image.

Claim 13 (Currently amended): A computer readable recording medium storing a photographing control program of an electronic device having an imaging part which catches an

image obtained through an optical system, and a focusing mechanism which moves said optical system to an auto-focusing position or a fixed focus position, the control program comprising:

detecting a shutter operation in the middle of a focusing action of said focusing mechanism; measuring a focusing value with an origin at a lens position where a focus position becomes an infinity, during the focusing action;

making the measured focusing value into a maximum focusing value if the measured focusing value is not smaller than a maximum focusing value;

deciding whether the optical system is in a final lens position or not during a focusing action of the focusing mechanism;

detecting said shutter operation and, if the optical system is not in the final lens position, switches to said fixed focus position from said auto-focusing position of said optical system under the focusing action;

a time from starting of the focusing action until starting of said shutter operation, and changing said optical system to said auto-focusing position or said fixed focus position based on a result of the comparison; and

taking a fixed focus image caught at said fixed focus; and

generating presentation information showing that the image taken by the shutter operation is a fixed focus image.

Claim 14 (Currently amended): A computer readable recording medium storing a

photographing control program of an electronic device having an imaging part which catches an

image obtained through an optical system, and a focusing mechanism which moves said optical

system to an auto-focusing position or a fixed focus position, the control program comprising:

detecting a shutter operation in the middle of a focusing action of said focusing mechanism;

measuring a focusing value with an origin at a lens position where a focus position becomes

an infinity, during the focusing action;

making the measured focusing value into a maximum focusing value if the measured

focusing value is not smaller than a maximum focusing value;

deciding whether the optical system is in a final lens position or not during a focusing action

of the focusing mechanism;

detecting said shutter operation and, if the optical system is not in the final lens position,

takes an auto-focusing image caught by said imaging part in the middle of the focusing action; and

comparing between a time required for bringing into focus in said focusing mechanism and

a time from starting of the focusing action until starting of said shutter operation, and changing said

optical system to said auto-focusing position or said fixed focus position based on a result of the

comparison generating presentation information showing that the image taken by the shutter

operation is an auto-focusing image.

Claim 15 (Currently amended): An integrated circuit to which an imaging part catching an

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image obtained through an optical system and a focusing mechanism moving said optical system to

an auto-focusing position or a fixed focus position are connected externally, comprising:

a detection part that detects a shutter operation in the middle of a focusing action of said

focusing mechanism and a focusing value measured with an origin at a lens position where a focus

position becomes an infinity, during the focusing action; and

a control part that decides whether the optical system is in a final lens position or not and,

on the basis of a detection of said shutter operation of said detection part, switches to said fixed

focus position from said auto-focusing position of said optical system under the focusing action and

takes a fixed focus image caught at said fixed focus if the optical system is not in the final lens

position,

wherein said control part makes the measured focusing value into a maximum focusing value

to perform the decision if the measured focusing value is not smaller than a maximum focusing

value, and

wherein said control part compares between a time required for bringing into focus in said

focusing mechanism and a time from starting of the focusing action until starting of said shutter

operation, and changes said optical system to said auto-focusing position or said fixed focus position

based on a result of the comparison generates presentation information showing that the image taken

by the shutter operation is a fixed focus image.

Claim 16 (Currently amended): An integrated circuit to which an imaging part catching an

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image obtained through an optical system and a focusing mechanism moving said optical system to

an auto-focusing position or a fixed focus position are connected externally, comprising:

a detection part that detects a shutter operation under a focusing action of said focusing

mechanism and a focusing value measured with an origin at a lens position where a focus position

becomes an infinity, during the focusing action; and

a control part that decides whether the optical system is in a final lens position or not and

takes an auto-focusing image in the middle of the focusing action based on a detection of said shutter

operation of said detection part if the optical system is not in the final lens position,

wherein said control part makes the measured focusing value into a maximum focusing value

to perform the decision if the measured focusing value is not smaller than a maximum focusing

value, and

wherein said control part compares between a time required for bringing into focus in said

focusing mechanism and a time from starting of the focusing action until starting of said shutter

operation, and changes said optical system to said auto-focusing position or said fixed focus position

based on a result of the comparison generates presentation information showing that the image taken

by the shutter operation is an auto-focusing image.

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